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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,552	12/28/2005	Hitoshi Nagahama	· 1247-0541PUS1	8217
BIRCH STEWART KOLASCH & BIRCH PO BOX 747			EXAMINER	
			EVANS, GEOFFREY T	
FALLS CHUR	CH, VA 22040-0747		ART UNIT	PAPER NUMBER
		•	2852	
	•		NOTIFICATION DATE	DELIVERY MODE
			07/09/2007	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

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	Application No.	Applicant(s)				
	10/562,552	NAGAHAMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Geoffrey T. Evans	2852				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become A	ICATION. It reply be timely filed ENTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 28 D	December 2005.					
2a) This action is FINAL . 2b) This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowa	nce except for formal ma	tters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdra	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine						
10)⊠ The drawing(s) filed on 28 December 2005 is/a						
Applicant may not request that any objection to the	*					
Replacement drawing sheet(s) including the correct	·					
11) The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreigr a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1.⊠ Certified copies of the priority document	ts have been received.					
2. Certified copies of the priority document		Application No.				
3. Copies of the certified copies of the price		· · · —————				
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	t of the certified copies no	t received.				
Attachment(s)		•				
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date Informal Patent Application				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/15/05, 7/17/06, 2/12/07	6) Other:					

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsuda (2003-354114), in view of Iguchi (08-339115).

Regarding claim 1, and claims 2-8 depending therefrom, Tsuda discloses a developer container comprising: a cylindrical container main body (1, see [0022]) for containing a developer for use in image formation, the developer container being detachably mounted on an image forming apparatus, the container main body being rotated about an axis thereof by driving means provided in the image forming apparatus to supply the developer to the image forming apparatus, the container main body having: a discharge hole (2a; see [0022]), for discharging the developer, and conveying means in an inner circumferential portion of the container main body, for conveying the developer in the axial direction when the container main body is rotated about the axis, the conveying means having a plurality of conveying portions extending in an extending direction from one end portion to the other end portion in the axial direction as it is directed to a downstream side in a rotation direction (see [0023]), the conveying portions being formed at intervals in a circumferential direction thereof and the axial direction, of which adjacent two conveying portions in the axial direction being arranged in such a manner that an end portion on a downstream side in the rotation direction of one conveying portion and an end portion on an upstream side in the rotation direction of the other conveying portion adjoin each other in the axial direction (see figure 1).

Tsuda does not disclose the discharge hole being substantially on the middle portion of the container main body in an axial direction.

Iguchi discloses a discharge hole being substantially on the middle portion of the container main body in an axial direction (see [0014])

It would have been obvious to one of ordinary skill in this art at the time the invention was made, to modify the developer container of Tsuda by putting the discharge hole being substantially on the middle portion of the container main body in an axial direction, since the developer would not have to be conveyed as far, and developer container volume could be saved since smaller conveying grooves would be necessary, as noted in Iguchi (see [0017])

Regarding claim 2, Tsuda discloses the developer container of claim 1, wherein the container main body is provided with a discharge hole for discharging the developer, and the conveying means conveys the developer in the axial direction of the container main body toward the discharge hole while oscillating the developer by rotating the container main body. See [0024].

Regarding claim 3, Tsuda discloses the developer container of claim 1 wherein the conveying portions are formed so as to meander in a substantially S-shape. See figure 1.

Regarding claim 4, and claims 5-7 depending therefrom, Tsuda discloses the developer container of claim 1, wherein the container main body is provided with a

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discharge hole for discharging the developer, and the conveying portions are formed so that the conveying amount of the developer by a conveying portion formed in a close portion to the discharge hole becomes larger than the conveying amount of the developer by a conveying portion formed in a distant portion from the discharge hole. See [0022] and [0027].

Regarding claim 5, Tsuda discloses the developer container of claim 4, wherein the conveying portions are formed so that the conveying portions formed in a close portion to the discharge hole proceed in the axial direction in the longer distance as proceeding in the circumferential direction in comparison with the conveying portion formed in the distant portion from the discharge hole. See [0027].

Regarding claim 6, Tsuda discloses he developer container of claim 4, wherein the conveying portions are formed so that the conveying portion formed in the close portion to the discharge hole have a larger size in an extending direction in comparison with the conveying portion formed in the distant portion from the discharge hole. See [0027].

Regarding claim 7, Tsuda discloses the developer container of claim 4, wherein the conveying portions are formed so as to protrude inward in a radial direction, and the conveying portion formed in the close portion to the discharge hole is formed so as to have a larger protruding amount inward (6) in the radial direction in comparison with the conveying portion formed in the distant portion from the discharge hole. See [0027].

Regarding claim 8, Tsuda discloses an image forming apparatus in which the developer container of claim 1 is detachably mounted. See [0033].

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey T. Evans whose telephone number is (571) 272 2369. The examiner can normally be reached on 9 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on (571) 272 2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

GTE

DAVID M. GRAY
SUPERVISORY PATENT EXAMINER